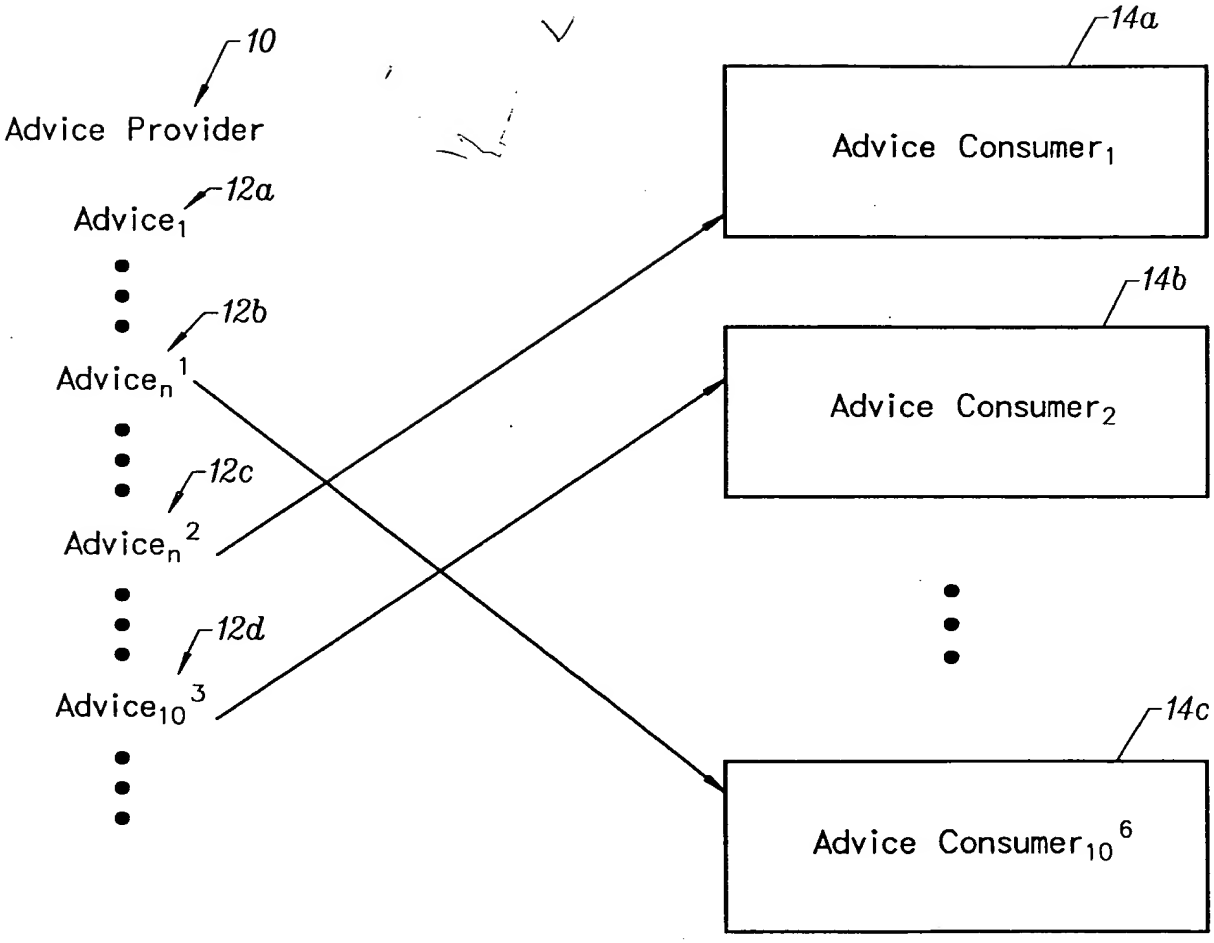
10
Advice Provider
12a
Advice$_1$
12b
Advice$_n$ 1
12c
Advice$_n$ 2
12d
Advice$_{10}$ 3
14a
Advice Consumer$_1$
14b
Advice Consumer$_2$
14c
Advice Consumer$_{10}$ 6

FIG. 1

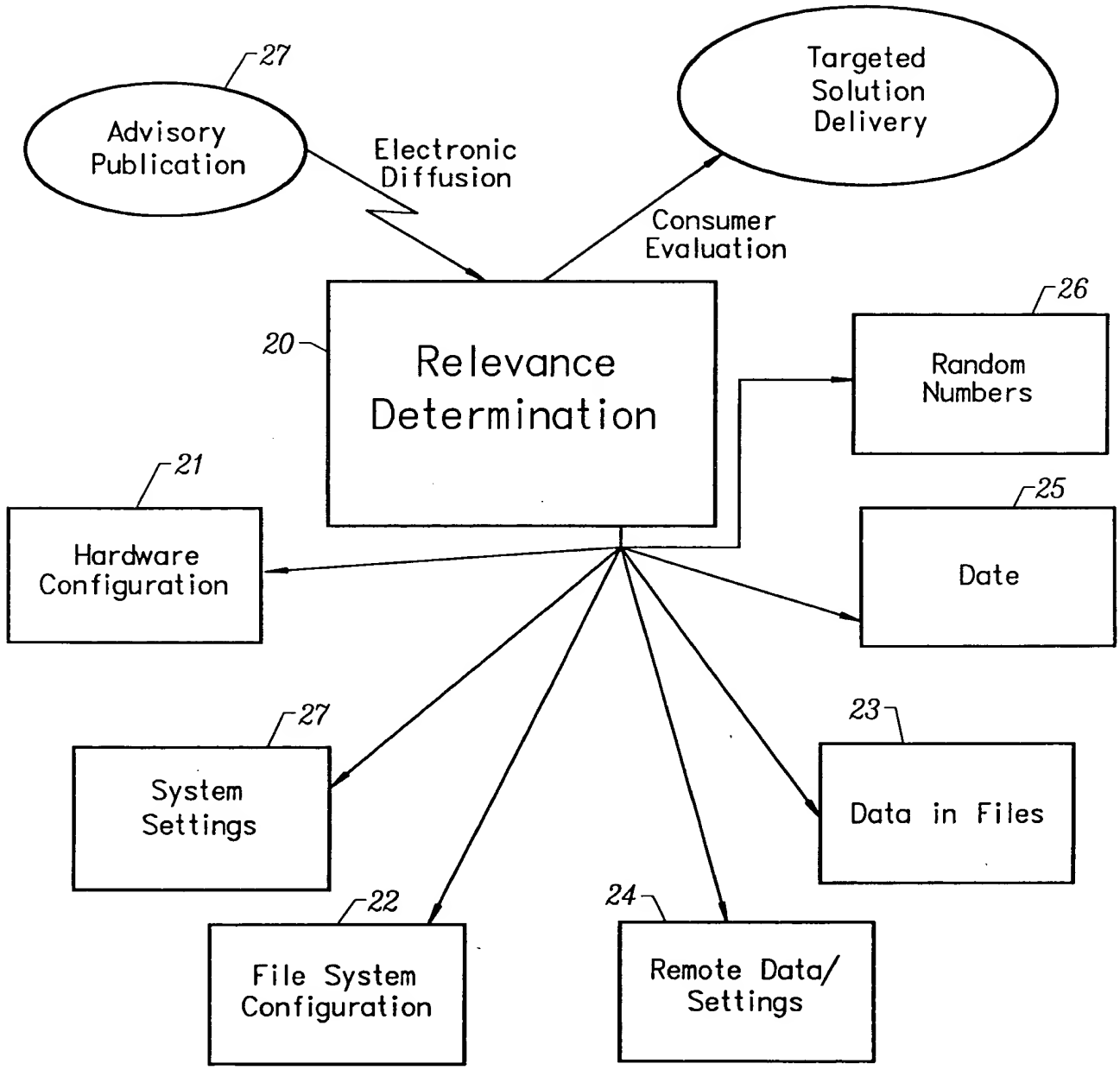
27
Advisory Publication
Electronic Diffusion
Targeted Solution Delivery
Consumer Evaluation
20
Relevance Determination
26
Random Numbers
21
Hardware Configuration
25
Date
27
System Settings
23
Data in Files
22
File System Configuration
24
Remote Data/ Settings

FIG. 2

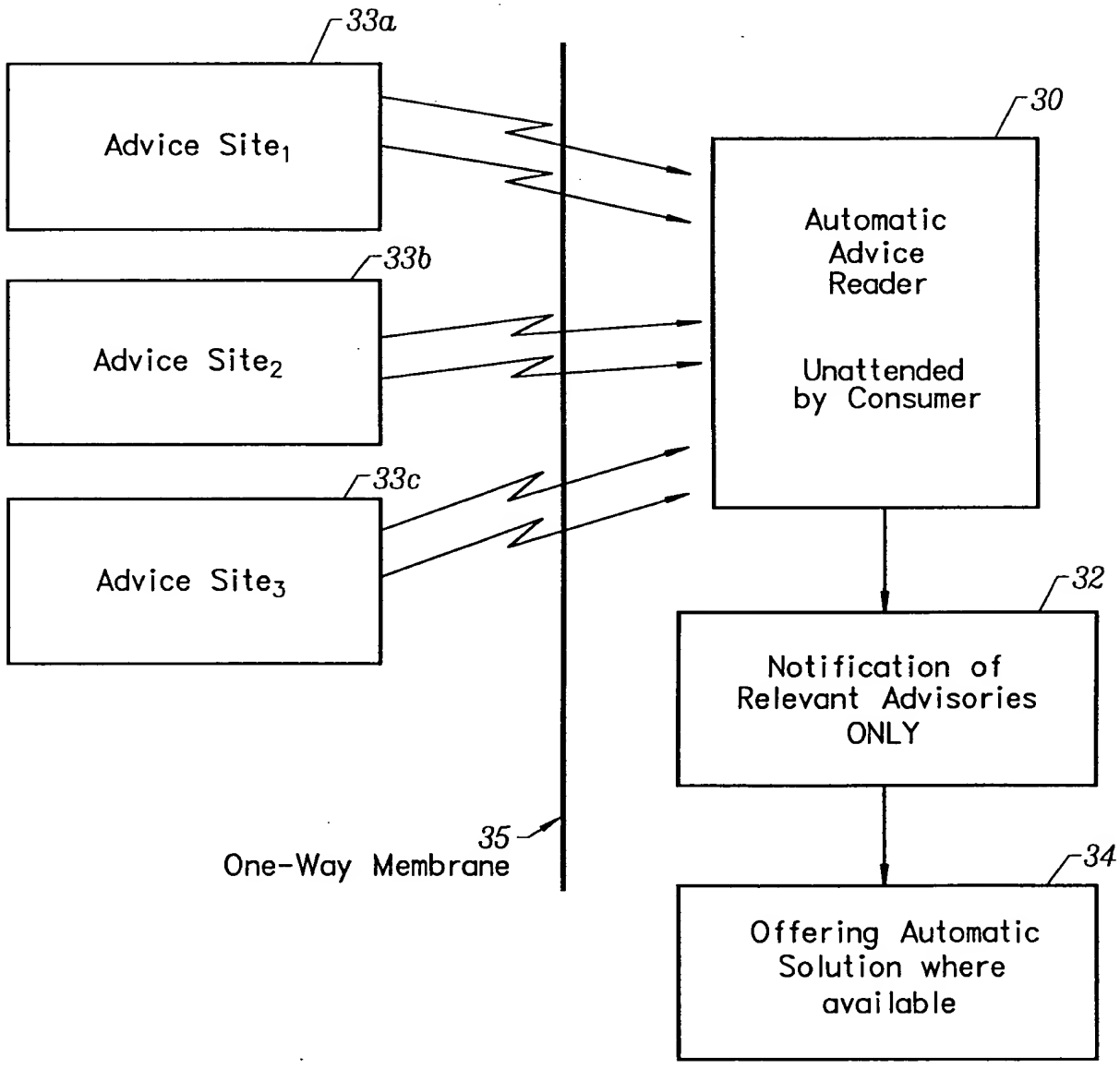
33a
Advice Site1
33b
Advice Site2
33c
Advice Site3
35
One-Way Membrane
30
Automatic
Advice
Reader
Unattended
by Consumer
32
Notification of
Relevant Advisories
ONLY
34
Offering Automatic
Solution where
available

FIG. 3

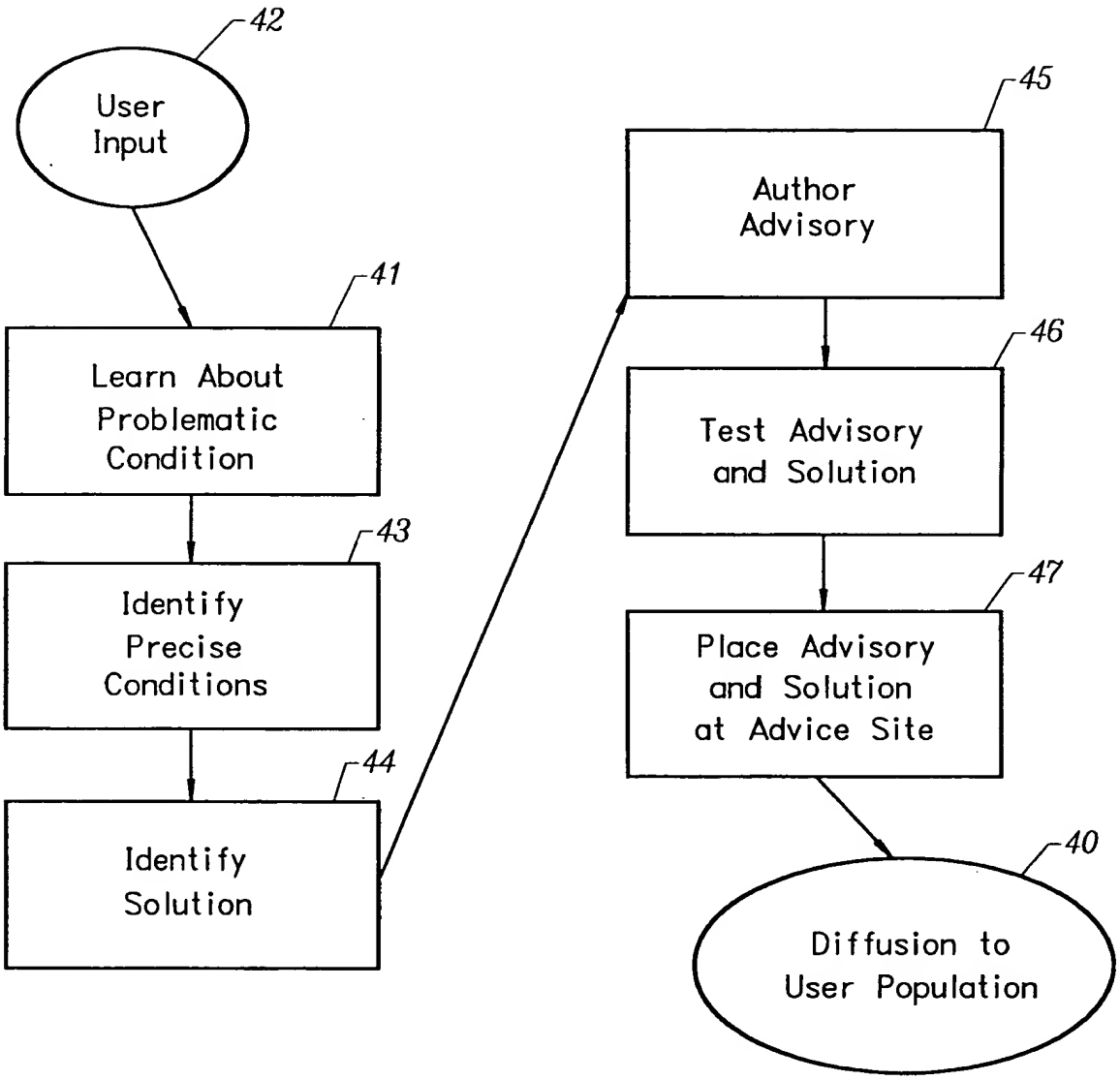
42
User Input
41
Learn About Problematic Condition
43
Identify Precise Conditions
44
Identify Solution
45
Author Advisory
46
Test Advisory and Solution
47
Place Advisory and Solution at Advice Site
40
Diffusion to User Population

FIG. 4

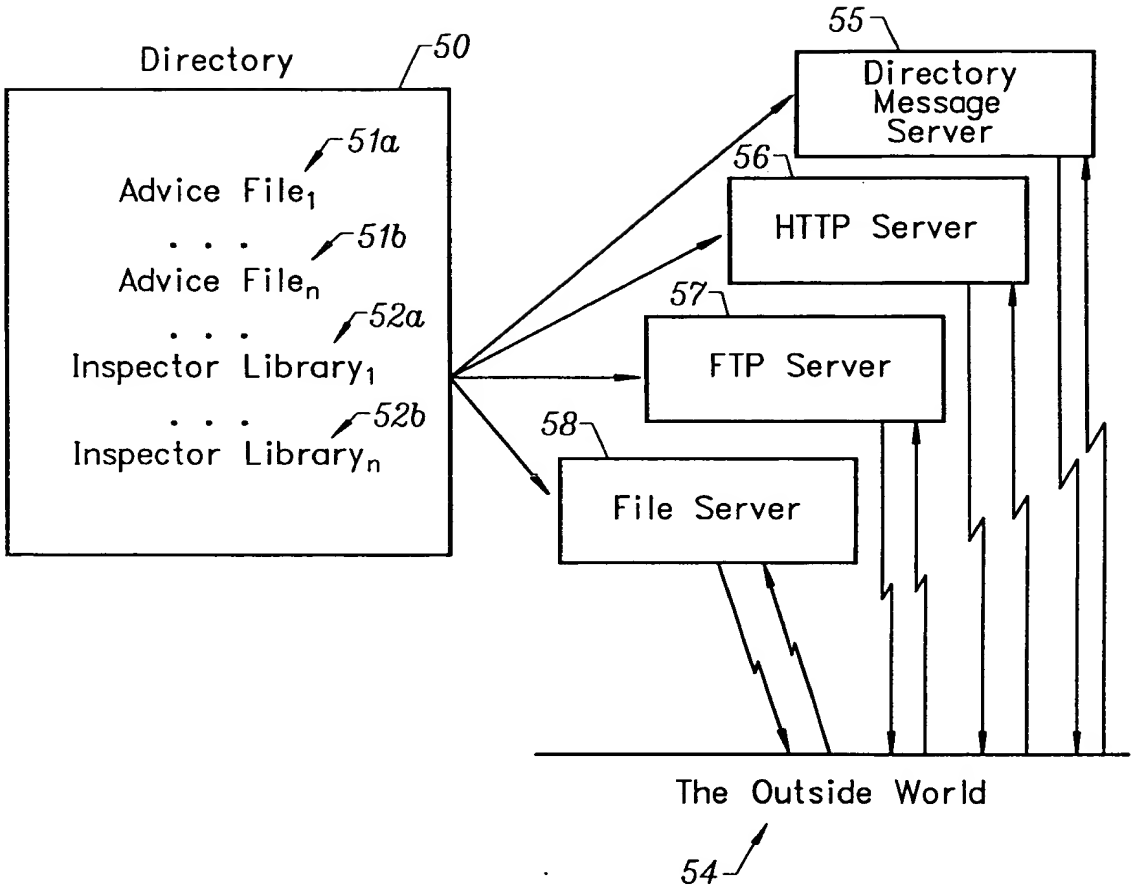
Directory
50
51a
Advice File1
51b
Advice Filen
52a
Inspector Library1
52b
Inspector Libraryn
55
Directory Message Server
56
HTTP Server
57
FTP Server
58
File Server
The Outside World
54

FIG. 5

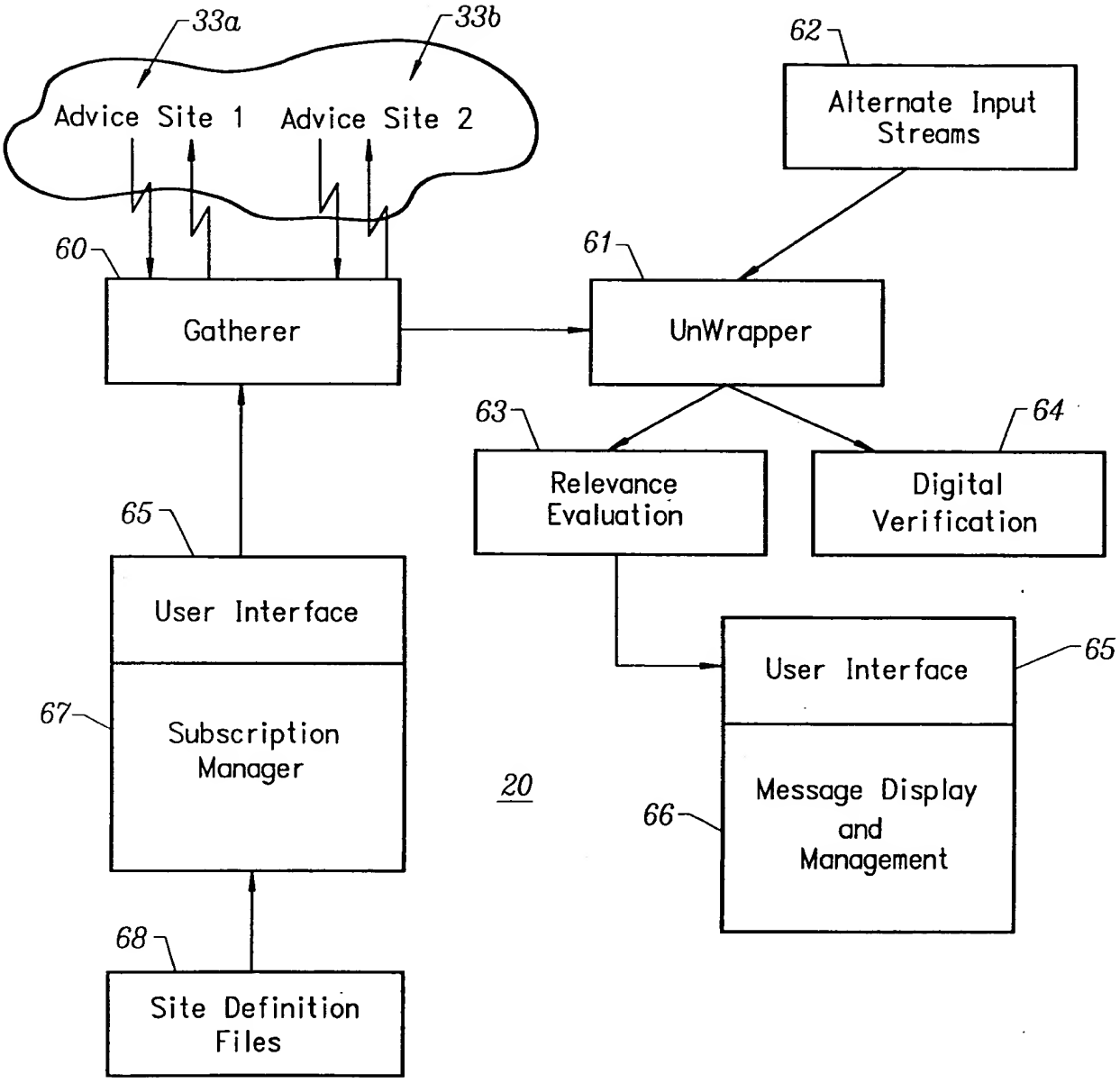
33a
33b
Advice Site 1
Advice Site 2
62
Alternate Input Streams
60
Gatherer
61
UnWrapper
63
Relevance Evaluation
64
Digital Verification
65
User Interface
67
Subscription Manager
20
User Interface
65
Message Display and Management
66
68
Site Definition Files

FIG. 6

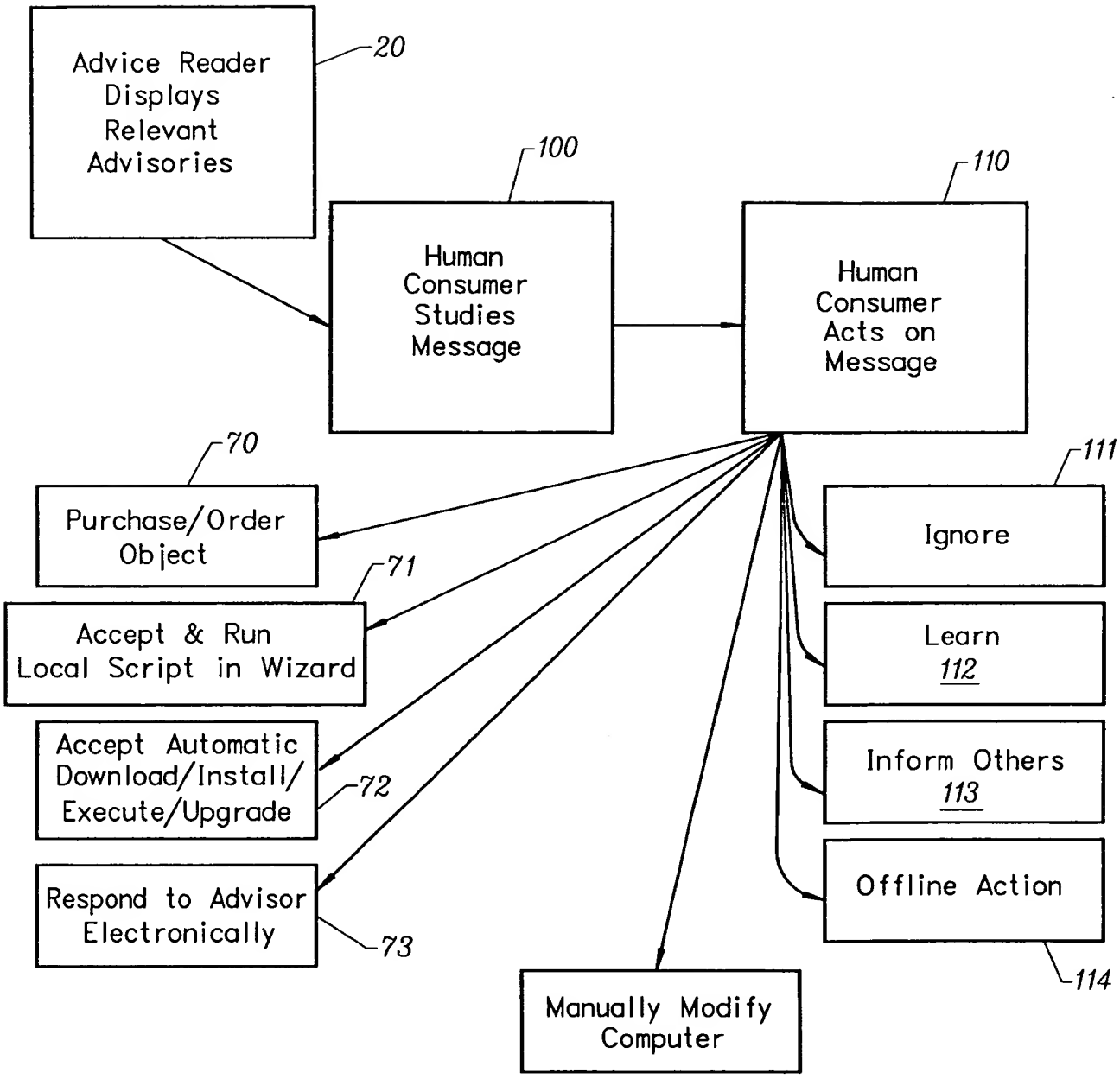
Advice Reader Displays Relevant Advisories
20
100
Human Consumer Studies Message
110
Human Consumer Acts on Message
70
Purchase/Order Object
71
Accept & Run Local Script in Wizard
Accept Automatic Download/Install/ Execute/Upgrade
72
Respond to Advisor Electronically
73
111
Ignore
Learn
112
Inform Others
113
Offline Action
114
Manually Modify Computer

FIG. 7

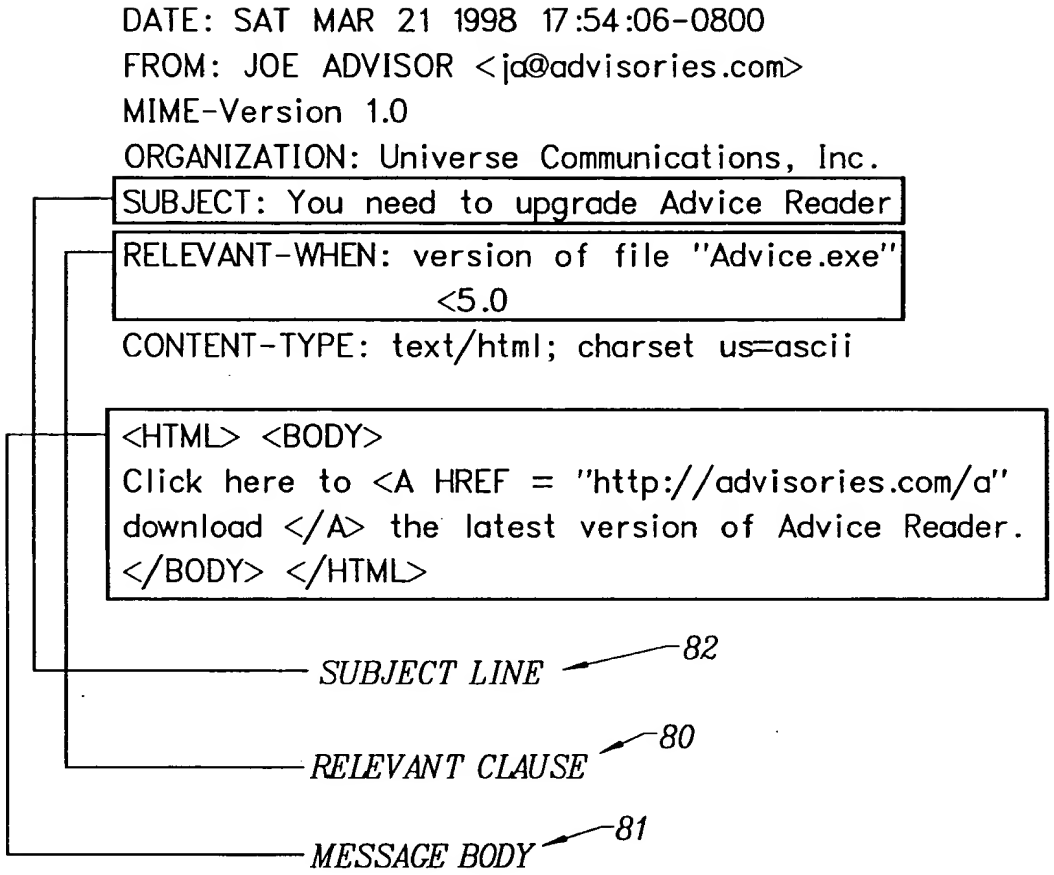
DATE: SAT MAR 21 1998 17:54:06-0800
FROM: JOE ADVISOR <ja@advisories.com>
MIME-Version 1.0
ORGANIZATION: Universe Communications, Inc.
SUBJECT: You need to upgrade Advice Reader
RELEVANT-WHEN: version of file "Advice.exe" <5.0
CONTENT-TYPE: text/html; charset us=ascii
<HTML> <BODY>
Click here to <A HREF = "http://advisories.com/a" download </A> the latest version of Advice Reader.
</BODY> </HTML>
SUBJECT LINE
82
RELEVANT CLAUSE
80
MESSAGE BODY
81

FIG. 8

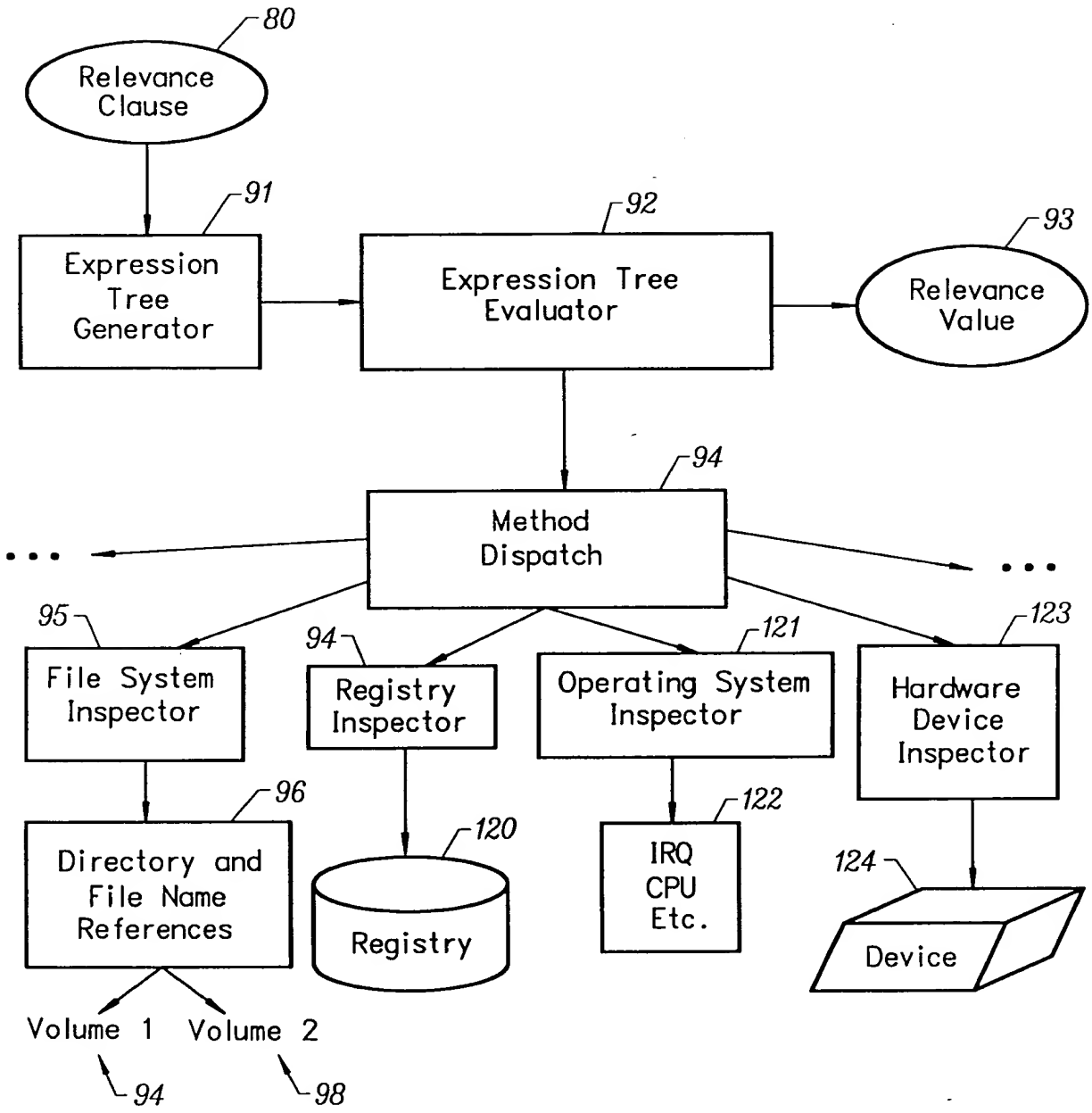
80
Relevance Clause
91
Expression Tree Generator
92
Expression Tree Evaluator
93
Relevance Value
94
Method Dispatch
95
File System Inspector
94
Registry Inspector
121
Operating System Inspector
123
Hardware Device Inspector
96
Directory and File Name References
120
Registry
122
IRQ CPU Etc.
124
Device
Volume 1
Volume 2
94
98

FIG. 9

Expression:
(not exists File 'System' of System Folder) or
(not exists File 'MacTCP DNR' of System Folder)

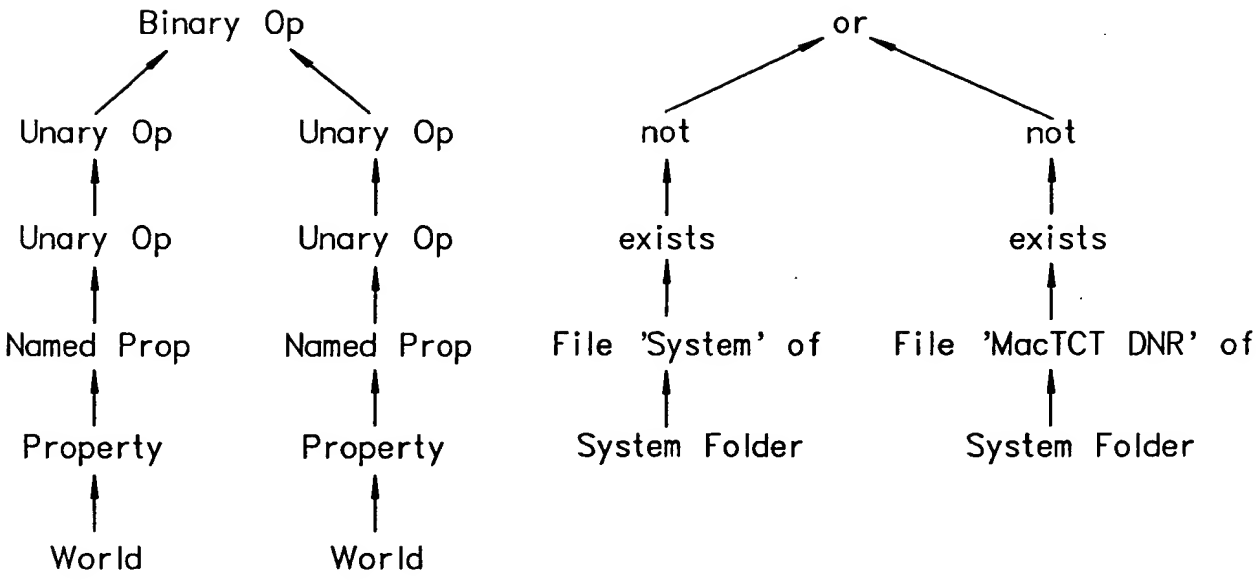

FIG. 10

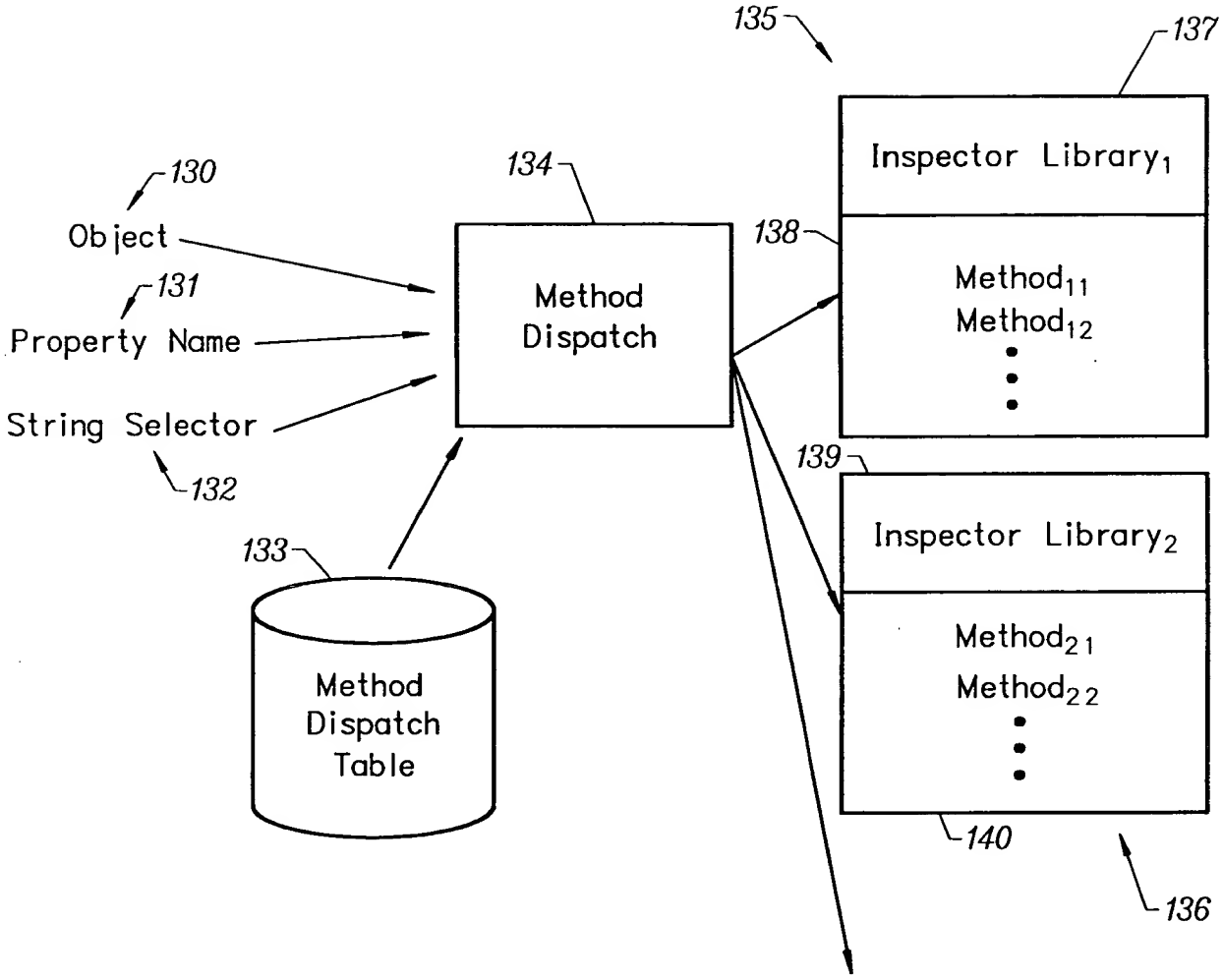
135
137
Inspector Library1
130
Object
134
Method
Dispatch
138
Method11
Method12
131
Property Name
String Selector
132
139
Inspector Library2
133
Method21
Method22
Method
Dispatch
Table
140
136

FIG. 11

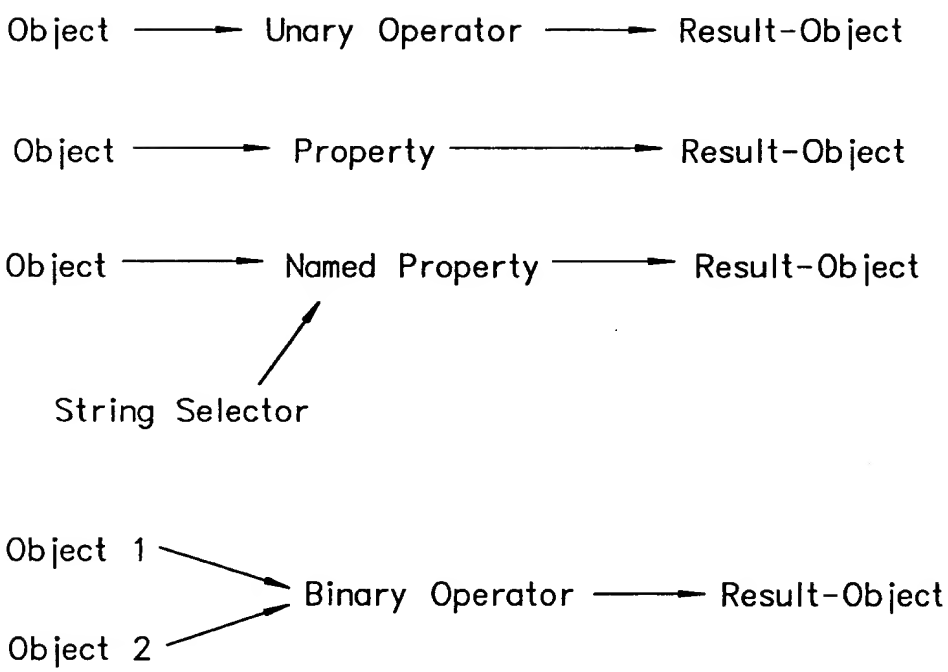
Object
Unary Operator
Result-Object
Object
Property
Result-Object
Object
Named Property
Result-Object
String Selector
Object 1
Object 2
Binary Operator
Result-Object

FIG. 12

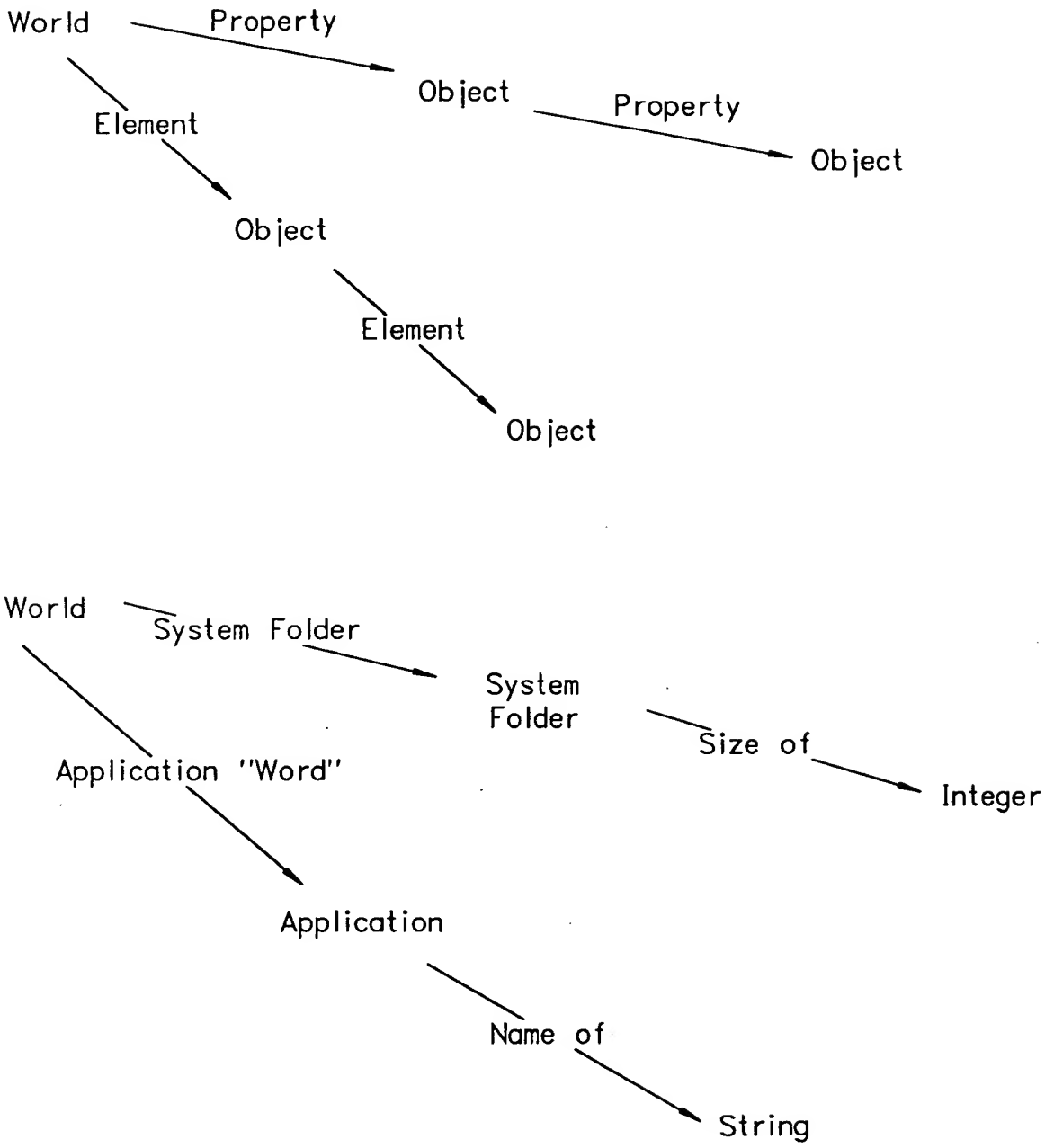
World
Property
Object
Property
Object
Element
Object
Element
Object
World
System Folder
System Folder
Size of
Integer
Application "Word"
Application
Name of
String

FIG. 13

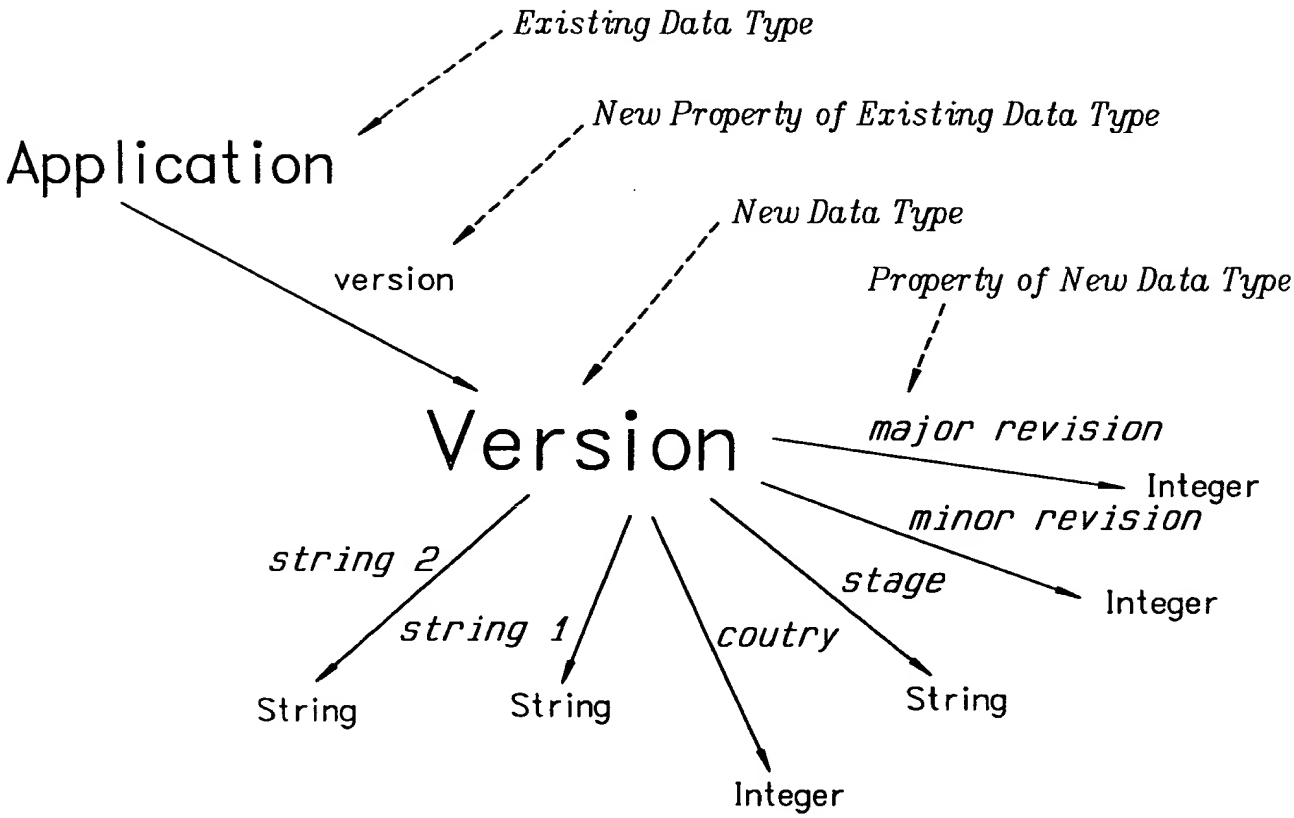
Existing Data Type
New Property of Existing Data Type
Application
New Data Type
version
Property of New Data Type
Version
major revision
Integer
minor revision
Integer
stage
String
coutry
Integer
string 2
String
string 1
String

FIG. 14

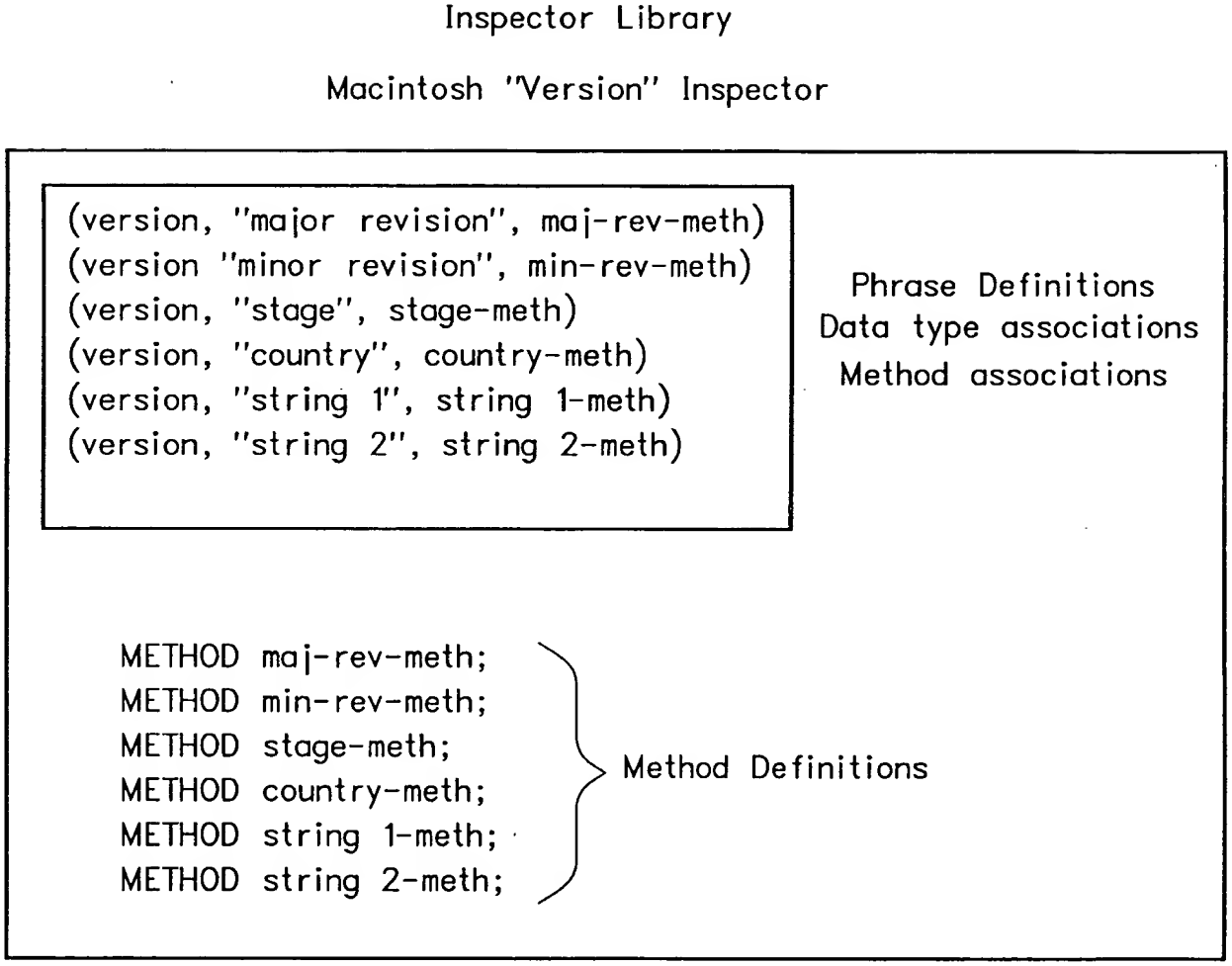
Inspector Library
Macintosh "Version" Inspector
(version, "major revision", maj-rev-meth)
(version "minor revision", min-rev-meth)
(version, "stage", stage-meth)
(version, "country", country-meth)
(version, "string 1", string 1-meth)
(version, "string 2", string 2-meth)
Phrase Definitions
Data type associations
Method associations
METHOD maj-rev-meth;
METHOD min-rev-meth;
METHOD stage-meth;
METHOD country-meth;
METHOD string 1-meth;
METHOD string 2-meth;
Method Definitions

FIG. 15

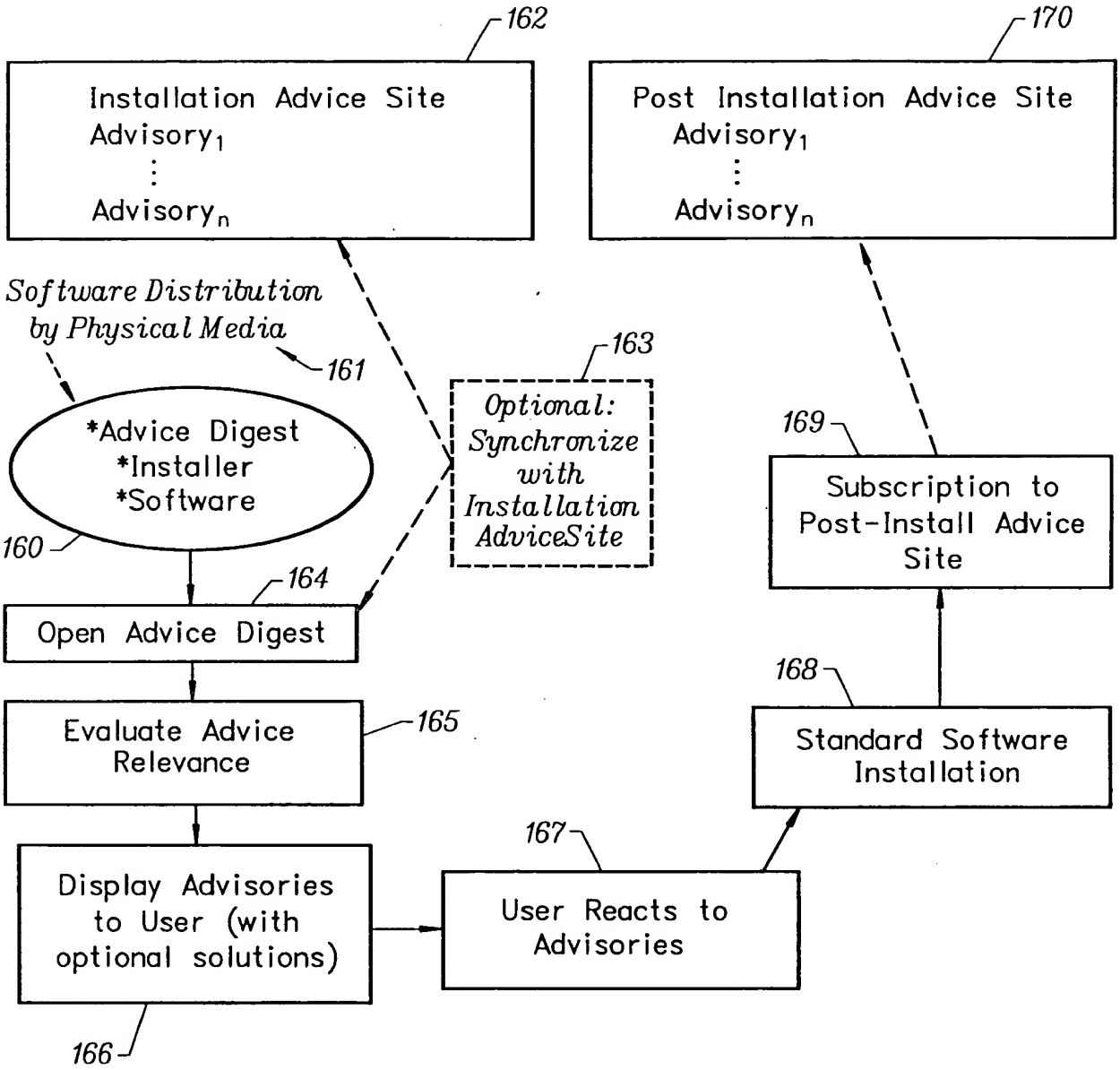
162
Installation Advice Site
Advisory1
Advisoryn
170
Post Installation Advice Site
Advisory1
Advisoryn
Software Distribution by Physical Media
161
163
Optional: Synchronize with Installation AdviceSite
*Advice Digest
*Installer
*Software
160
169
Subscription to Post-Install Advice Site
164
Open Advice Digest
168
Standard Software Installation
165
Evaluate Advice Relevance
167
Display Advisories to User (with optional solutions)
User Reacts to Advisories
166

FIG. 16

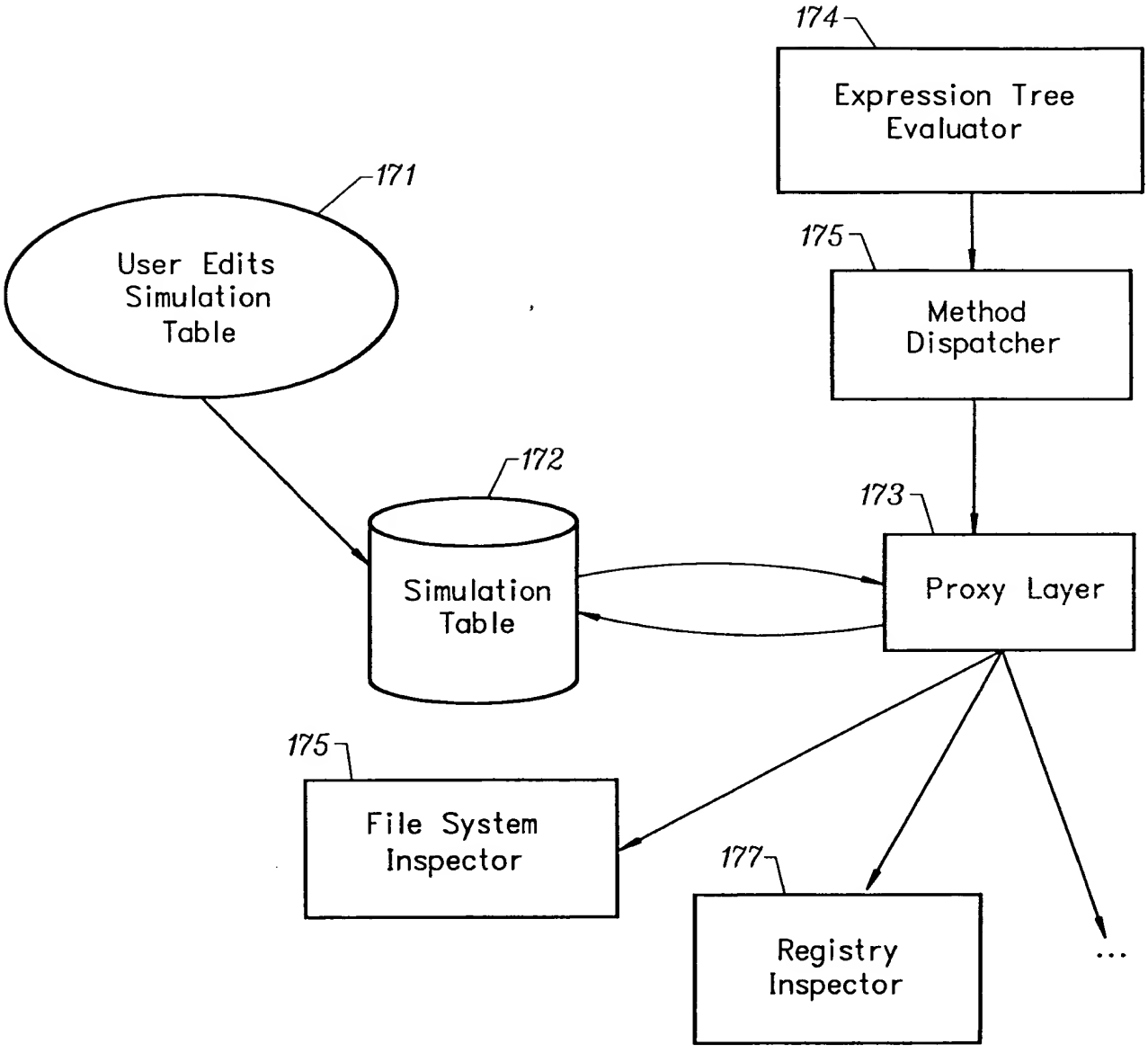
174
Expression Tree Evaluator
171
User Edits Simulation Table
175
Method Dispatcher
172
173
Simulation Table
Proxy Layer
175
File System Inspector
177
Registry Inspector
...

FIG. 17

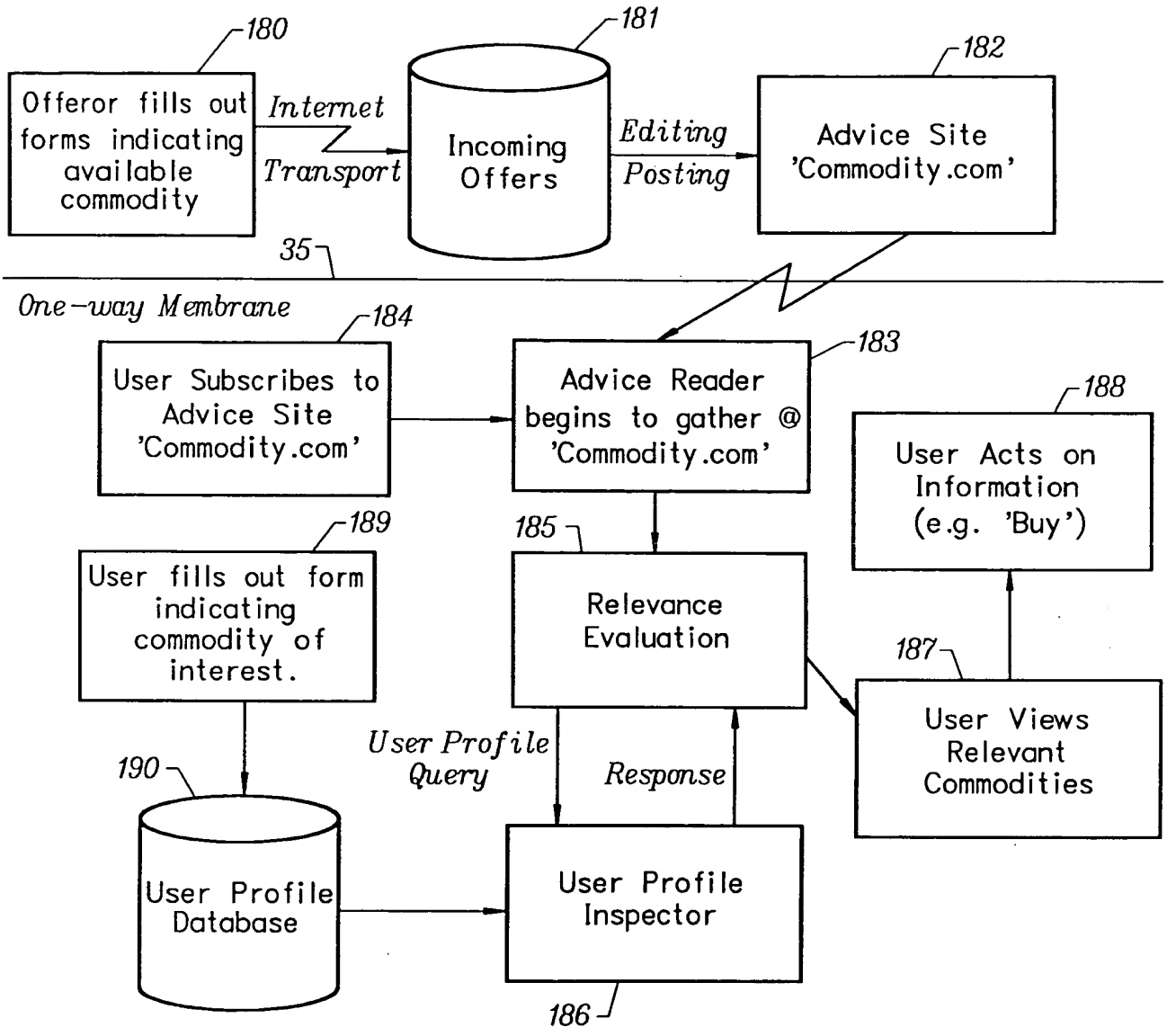
180
Offeror fills out forms indicating available commodity
Internet
Transport
181
Incoming Offers
Editing
Posting
182
Advice Site 'Commodity.com'
35
One-way Membrane
184
User Subscribes to Advice Site 'Commodity.com'
183
Advice Reader begins to gather @ 'Commodity.com'
188
User Acts on Information (e.g. 'Buy')
189
User fills out form indicating commodity of interest.
185
Relevance Evaluation
187
User Views Relevant Commodities
User Profile Query
Response
190
User Profile Database
User Profile Inspector
186

FIG. 18

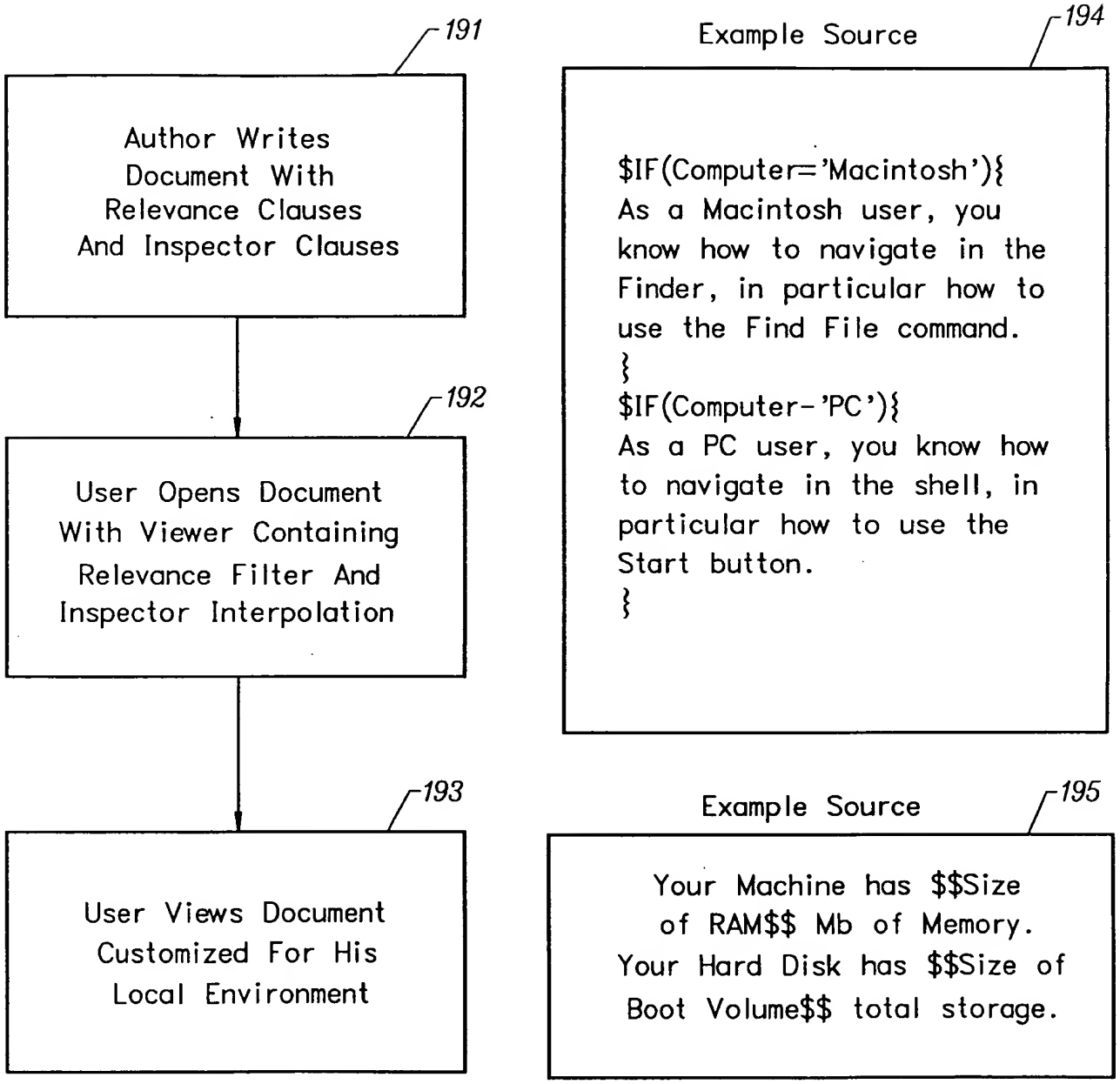
191
Author Writes Document With Relevance Clauses And Inspector Clauses
192
User Opens Document With Viewer Containing Relevance Filter And Inspector Interpolation
193
User Views Document Customized For His Local Environment
Example Source
194
$IF(Computer='Macintosh'){
As a Macintosh user, you know how to navigate in the Finder, in particular how to use the Find File command.
}
$IF(Computer-'PC'){
As a PC user, you know how to navigate in the shell, in particular how to use the Start button.
}
Example Source
195
Your Machine has $$Size of RAM$$ Mb of Memory. Your Hard Disk has $$Size of Boot Volume$$ total storage.

FIG. 19

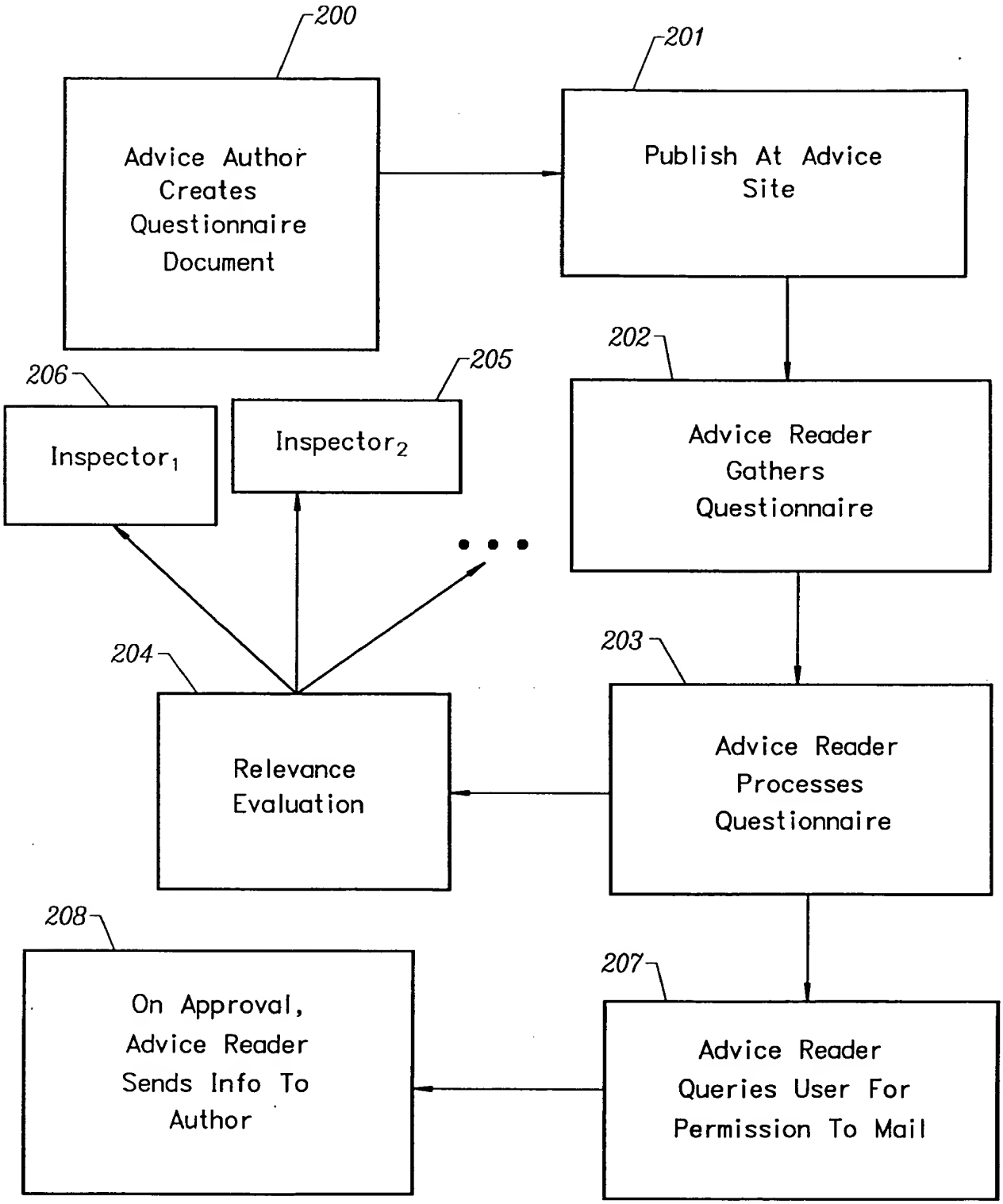
200
Advice Author Creates Questionnaire Document
201
Publish At Advice Site
202
Advice Reader Gathers Questionnaire
205
206
Inspector1
Inspector2
204
Relevance Evaluation
203
Advice Reader Processes Questionnaire
208
On Approval, Advice Reader Sends Info To Author
207
Advice Reader Queries User For Permission To Mail

FIG. 20

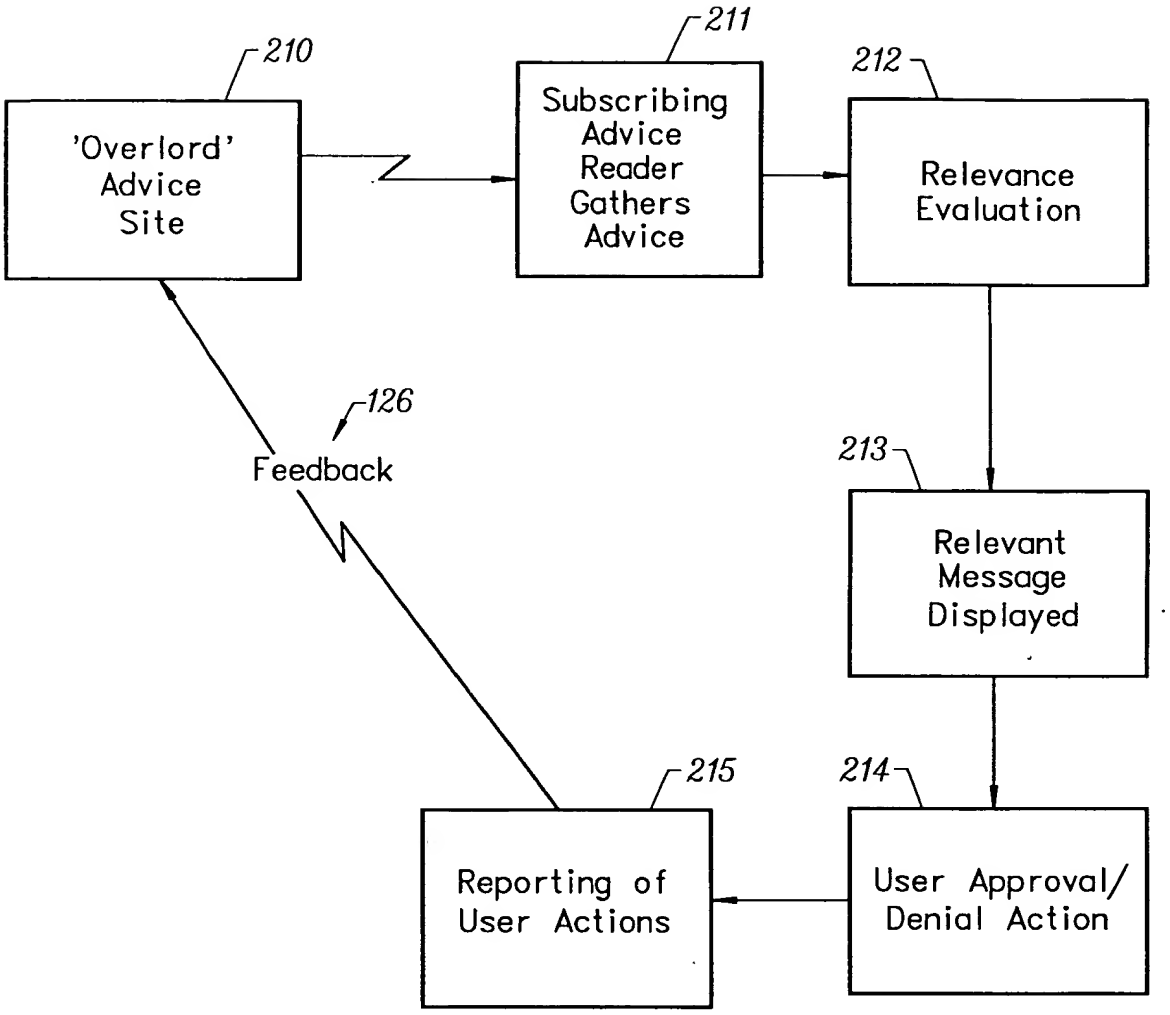
210
'Overlord' Advice Site
211
Subscribing Advice Reader Gathers Advice
212
Relevance Evaluation
213
Relevant Message Displayed
214
User Approval/ Denial Action
215
Reporting of User Actions
126
Feedback

FIG. 21

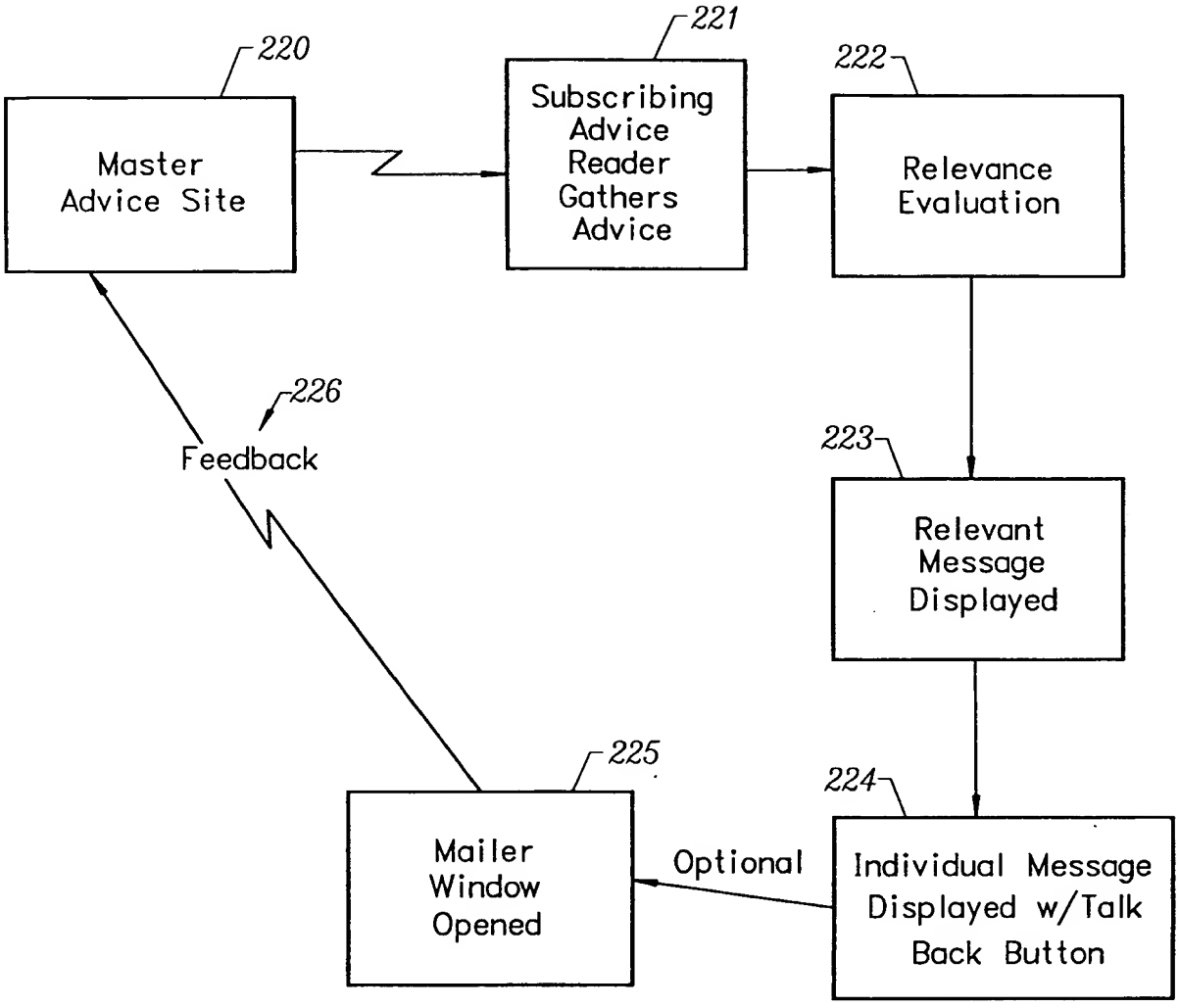
220
Master Advice Site
221
Subscribing Advice Reader Gathers Advice
222
Relevance Evaluation
223
Relevant Message Displayed
224
Individual Message Displayed w/Talk Back Button
Optional
225
Mailer Window Opened
226
Feedback

FIG. 22

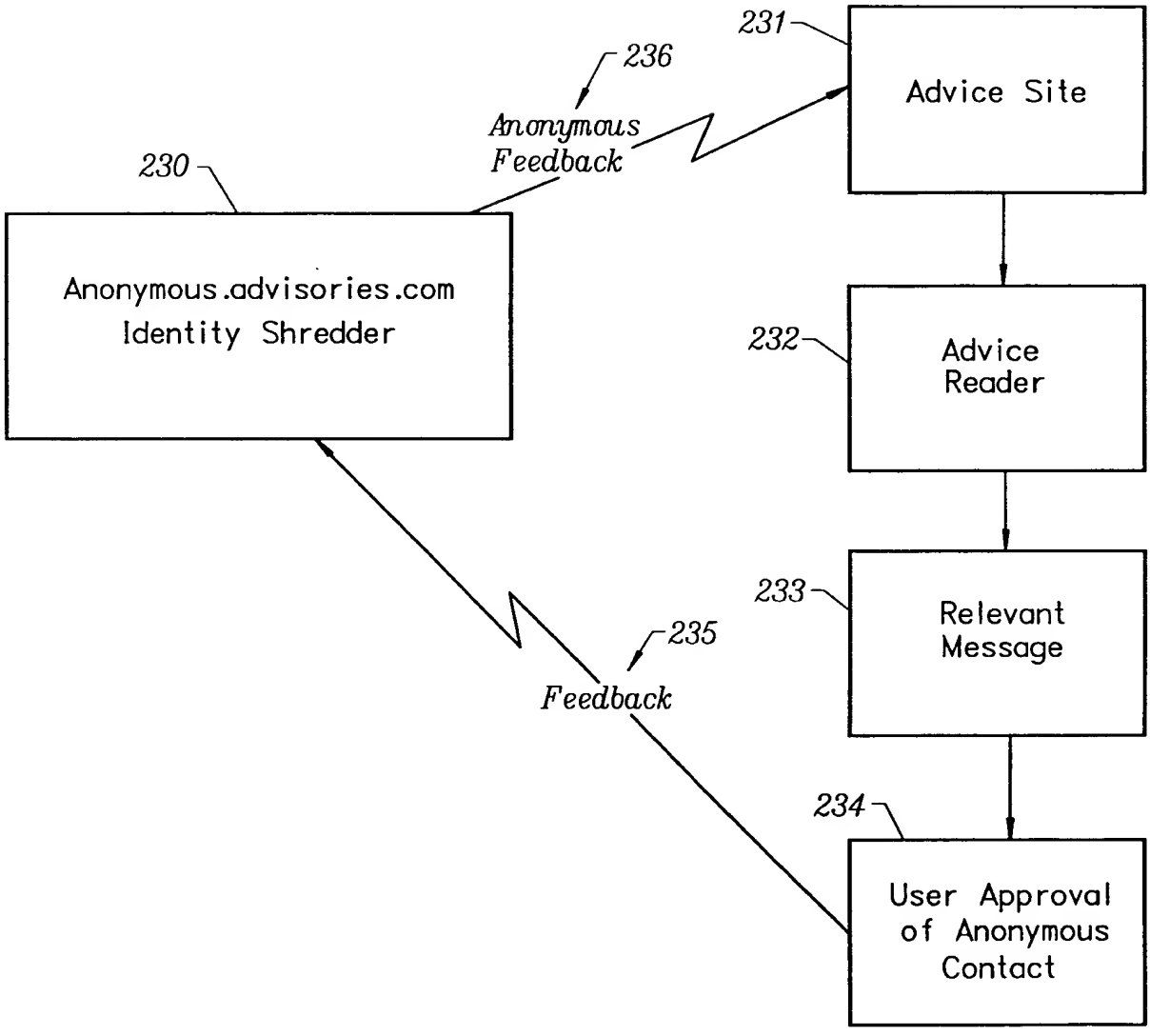
231
Advice Site
236
Anonymous
Feedback
230
Anonymous.advisories.com
Identity Shredder
232
Advice
Reader
233
Relevant
Message
235
Feedback
234
User Approval
of Anonymous
Contact

FIG. 23

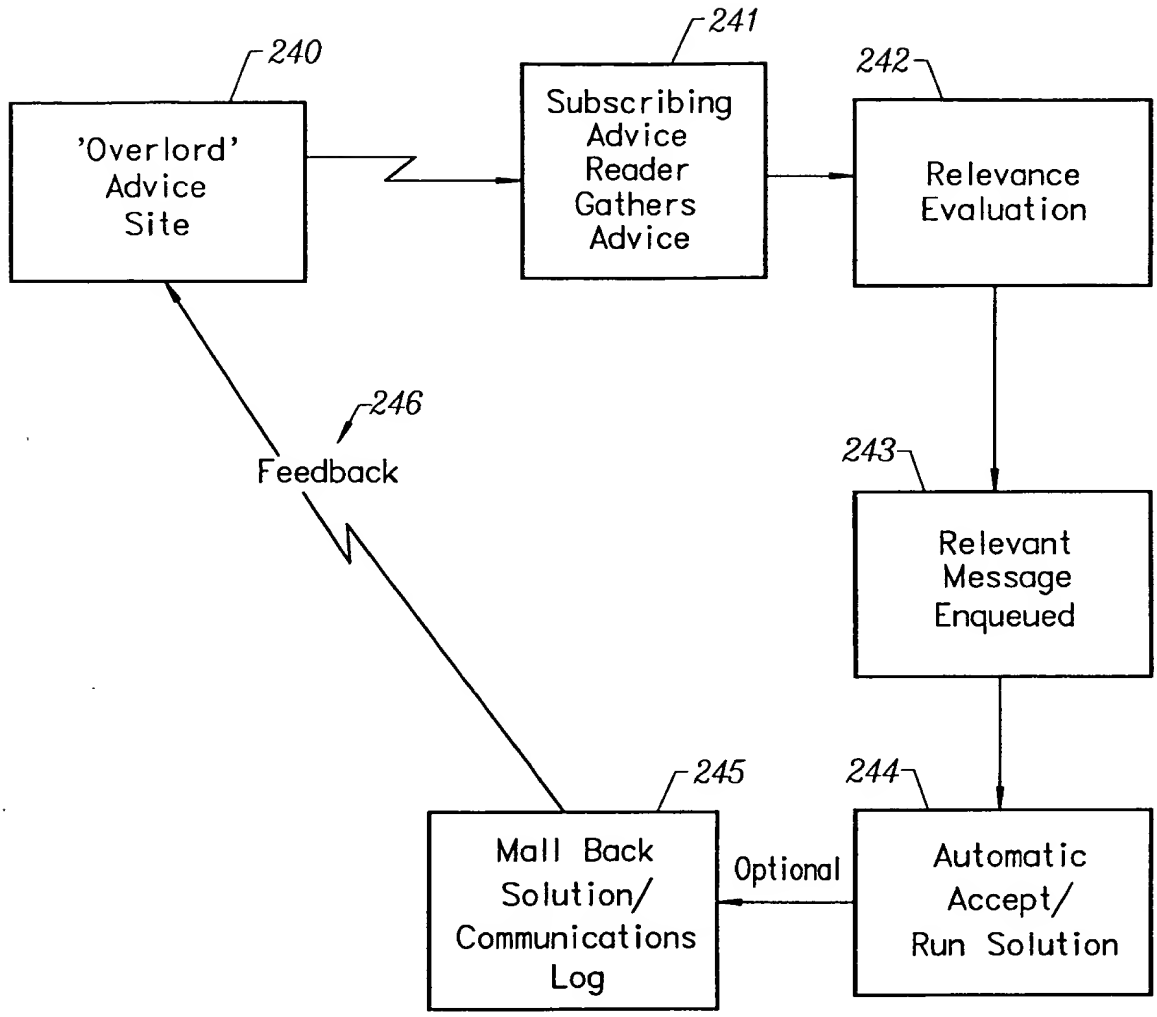
240
'Overlord' Advice Site
241
Subscribing Advice Reader Gathers Advice
242
Relevance Evaluation
243
Relevant Message Enqueued
244
Automatic Accept/ Run Solution
Optional
245
Mail Back Solution/ Communications Log
246
Feedback

FIG. 24

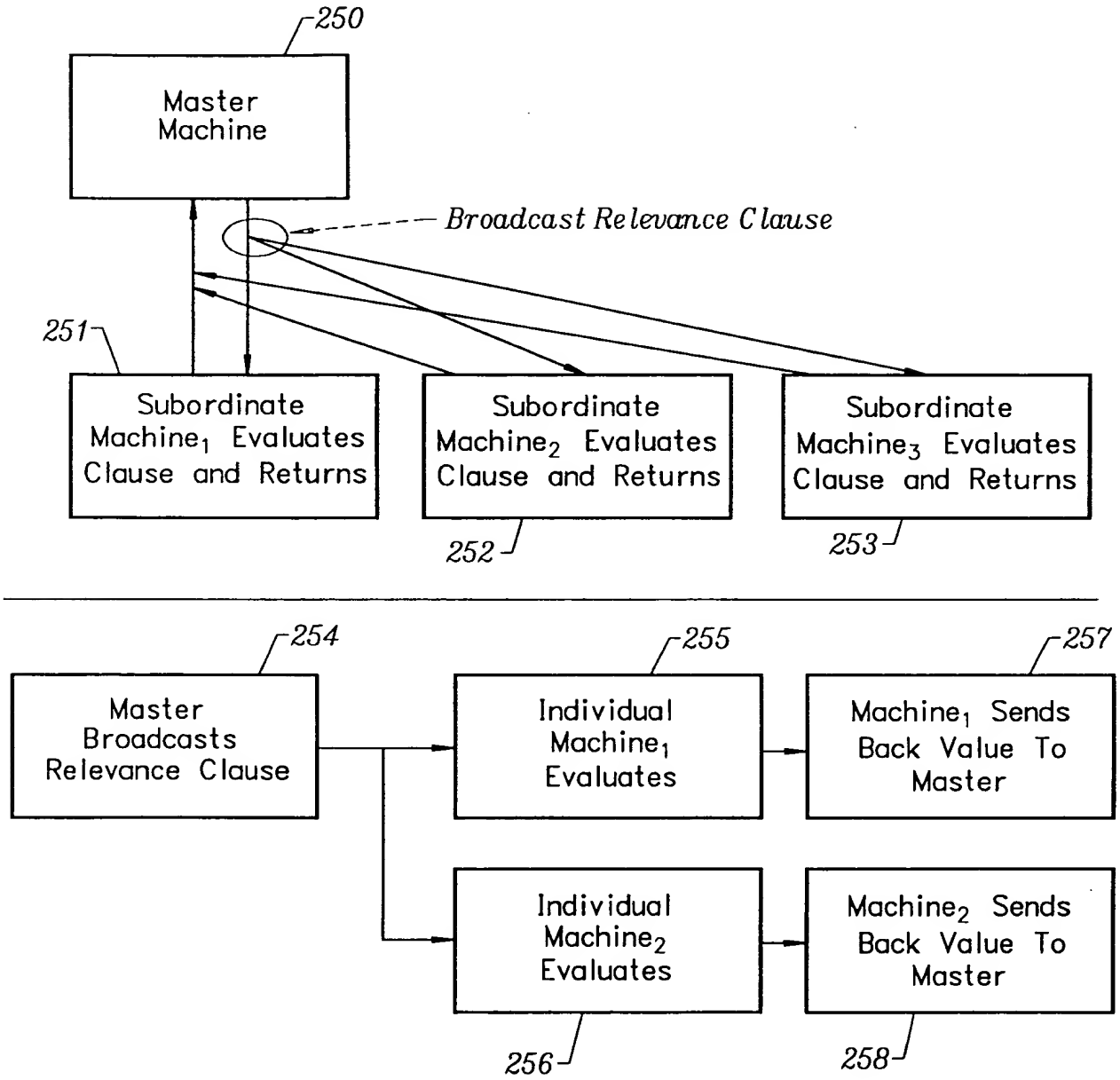
250
Master Machine
Broadcast Relevance Clause
251
Subordinate Machine1 Evaluates Clause and Returns
Subordinate Machine2 Evaluates Clause and Returns
Subordinate Machine3 Evaluates Clause and Returns
252
253
254
Master Broadcasts Relevance Clause
255
Individual Machine1 Evaluates
257
Machine1 Sends Back Value To Master
Individual Machine2 Evaluates
Machine2 Sends Back Value To Master
256
258

FIG. 25